

CAL Software Workshop

Sim/Recon Status/plans

France

November 2001







Cal Sim/Recon: Status

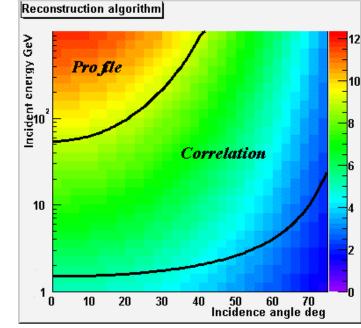
 High Energy Corrections: 2 methods; strong dependence on shower max position

At high energies on axis shower max is not contained :use profile fitting

At intermediate energies and/or large incidence angle: use last layer correlation

- Remark: Current correlation coefficients used in pdrApp were derived using old geometry
- Bias correction not added to code
- Intend to regenerate coefficients
- Coeff extraction code exists
- Await installation and running of pdrApp
 V7r1 on Linux machines @ Lyon (many, many problems)

Alternative: run jobs at SLAC?



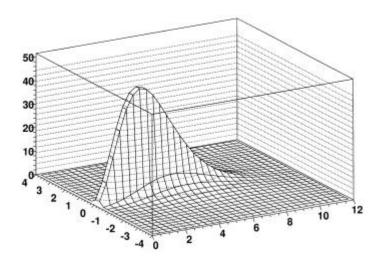
Arache Djannati-Ataï

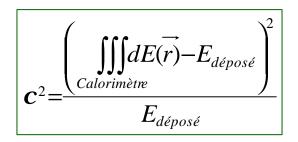
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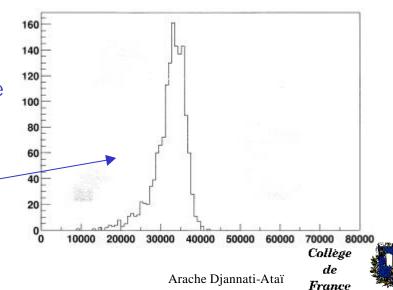
Cal Sim/Recon: Status

• High Energy Corrections (continued): A 3rd method using 3dimensional description of the shower was tried;





- Results : very slight improvement of the energy resolution as compared to longitudinal profile fitting at
- 30 Gev normal incident photons







Cal Sim/Recon: Status/Plans

• Low energy Corrections :

See Malcolm's presentation

Next steps: try new methods: sampling calorimeter methods?

Started few tries with Geant3; awaiting Geant4 with active volumes...

Side/ Cracks Corrections

New Tries - Not implemented; Build Prototypes

• Discriminant Variables for Background Rejection

Improve moments (smarter weights) exist

• Clusters : None

